



Report No.: AGC00376130401FE08

Page 1 of 47

FCC Test Report

Report No.: AGC00376130401FE08

FCC ID : JJMFUSION2

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Cell phone (Fusion2)

BRAND NAME : NUQLEO

MODEL NAME : QS-G3UCT2BK

CLIENT : Accvent LLC

DATE OF ISSUE : May 21,2013

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 21,2013	Valid	Original Report

TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	5
2. GENERAL INFORMATION	6
2.1 PRODUCT DESCRIPTION.....	6
2.2 RELATED SUBMITTAL(S)/GRANT(S)	6
2.3 TEST METHODOLOGY	6
2.4 TEST FACILITY.....	6
2.5 SPECIAL ACCESSORIES.....	6
2.6 EQUIPMENT MODIFICATIONS	6
3. SYSTEM TEST CONFIGURATION	7
3.1 CONFIGURATION OF TESTED SYSTEM.....	7
3.2 EQUIPMENT USED IN TESTED SYSTEM	7
4. SUMMARY OF TEST RESULTS	8
5. DESCRIPTION OF TEST MODES	8
6. ANTENNA REQUIREMENT.....	9
6.1. STANDARD APPLICABLE	9
6.2. TEST RESULT	9
7. RADIATED EMISSION.....	10
7.1 MEASUREMENT PROCEDURE	10
7.2 TEST SETUP	11
7.3 LIMITS AND MEASUREMENT RESULT	12
7.4 TEST RESULT	12
8. BAND EDGE EMISSION.....	25
8.1. MEASUREMENT PROCEDURE	25
8.2. TEST SET-UP	25
8.3. TEST RESULT	26
9. 6DB BANDWIDTH	30
9.1. TEST EQUIPMENT LIST AND DETAILS	30
9.2. TEST PROCEDURE	30
9.3. SUMMARY OF TEST RESULTS/PLOTS	30
10. CONDUCTED OUTPUT POWER.....	33
10.1. MEASUREMENT PROCEDURE	33
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	33
10.3. LIMITS AND MEASUREMENT RESULT	33
11. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY.....	34
11.1 MEASUREMENT PROCEDURE	34
11.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	34

11.3 MEASUREMENT EQUIPMENT USED	34
11.4 LIMITS AND MEASUREMENT RESULT.....	34
12. FCC LINE CONDUCTED EMISSION TEST	37
12.1 LIMITS.....	37
12.2 TEST SETUP.....	37
12.3 PRELIMINARY PROCEDURE.....	38
12.4 FINAL TEST PROCEDURE	38
12.5 TEST RESULT OF POWER LINE.....	39
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	41
APPENDIX B: PHOTOGRAPHS OF EUT	42

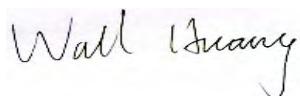
1. VERIFICATION OF COMPLIANCE

Applicant	Accvent LLC
Address	454 Holiday Drive Hallandale, Florida, 33009.USA
Manufacturer	Accvent LLC
Address	454 Holiday Drive Hallandale, Florida, 33009.USA
Product Designation	Cell phone (Fusion2)
Brand Name	NUQLEO
Test Model	QS-G3UCT2BK
Date of test	Apr.23,2013 to Apr.28,2013
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BLE/RF (2013-03-01)

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By



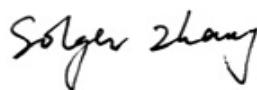
Wall Huang May 21,2013

Checked By



Forrest Lei May 21,2013

Authorized By



Solger Zhang May 21,2013

2.GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION

The EUT is “ **Cell phone (Fusion2)**” designed as a “Communication Device”. It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.0
Modulation	GFSK
Number of channels	40 Channel(37 Hopping Channel,3 advertising Channel)
Antenna Designation	Integrated Antenna
Antenna Gain	1.2dBi
Hardware Version	w822-mb-v2
Software Version	N/A
Power Supply	DC3.7V by Built-in Li-ion Battery

2.2 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: JJMFUSION2** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.3 TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions. The EUT was tested in all three orthogonal planes and the worse case was showed.

2.4 TEST FACILITY

All measurement facilities used to collect the measurement data are located at
Attestation of Global Compliance (Shenzhen) Co, Ltd

2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

FCC register No.: 259865

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

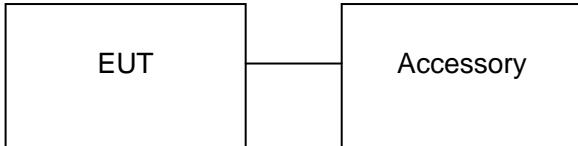
2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. SYSTEM TEST CONFIGURATION

3.1 CONFIGURATION OF TESTED SYSTEM

Configuration:



3.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Note
1	Cell phone (Fusion2)	QS-G3UCT2BK	FCC ID: JJMFUSION2	EUT
2	Adapter	Fusion2	DC5.0V / 550mA	Accessory
3	Battery	Fusion2	DC3.7V/ 1200mAh	Accessory
4	Earphone	QS-G3UCT2BK	N/A	Accessory
5	USB Cable	QS-G3UCT2BK	N/A	Accessory

4. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§ 15.203	Antenna Requirement	Compliant
§15.209 §15.247(d)	Radiated Emission	Compliant
§15.247(d)	Band Edges	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247(b)	Conducted Power	Compliant
§15.247(e)	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.207	Line Conduction Emission	Compliant

5. DESCRIPTION OF TEST MODES

The EUT has been operated in three modulations: GFSK independently.

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Operating (BT)

Note:

1. All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report if no any records.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

6. ANTENNA REQUIREMENT

6.1. STANDARD APPLICABLE

According to FCC 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

6.2. TEST RESULT

This product has a permanent antenna, fulfill the requirement of this section.

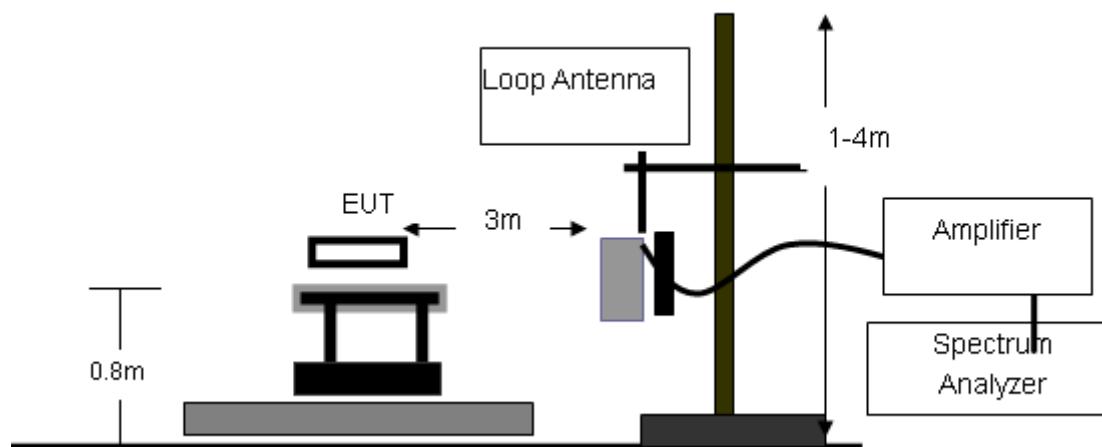
7. RADIATED EMISSION

7.1 MEASUREMENT PROCEDURE

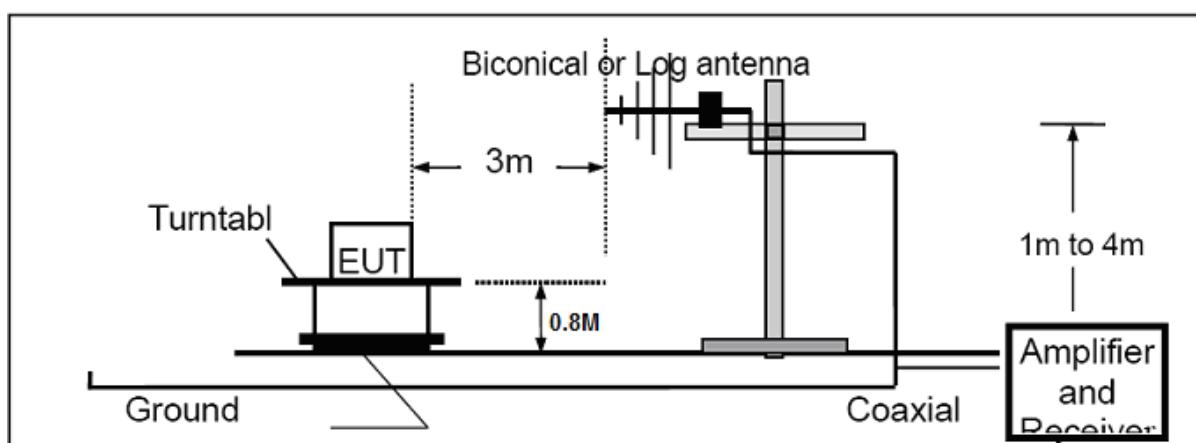
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

7.2 TEST SETUP

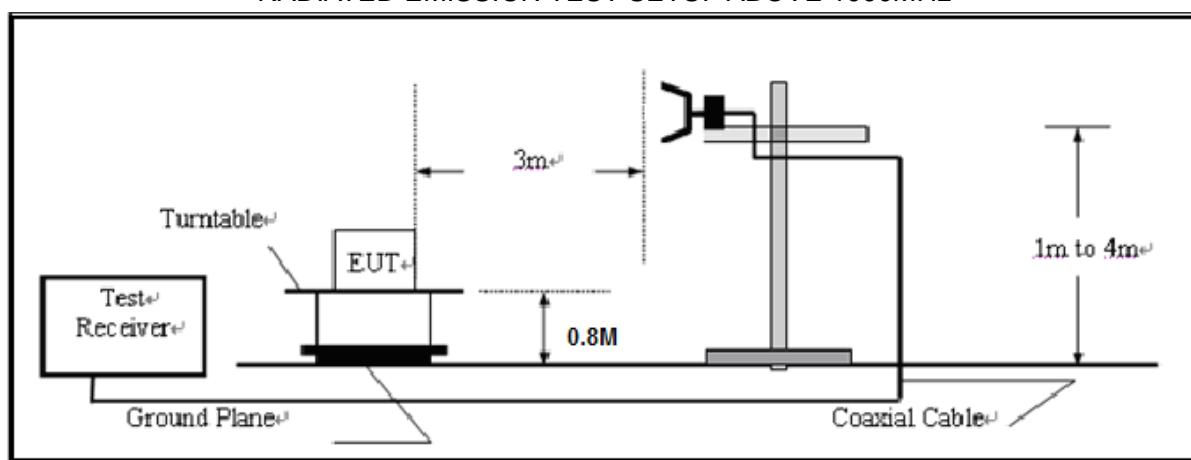
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



7.3 LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

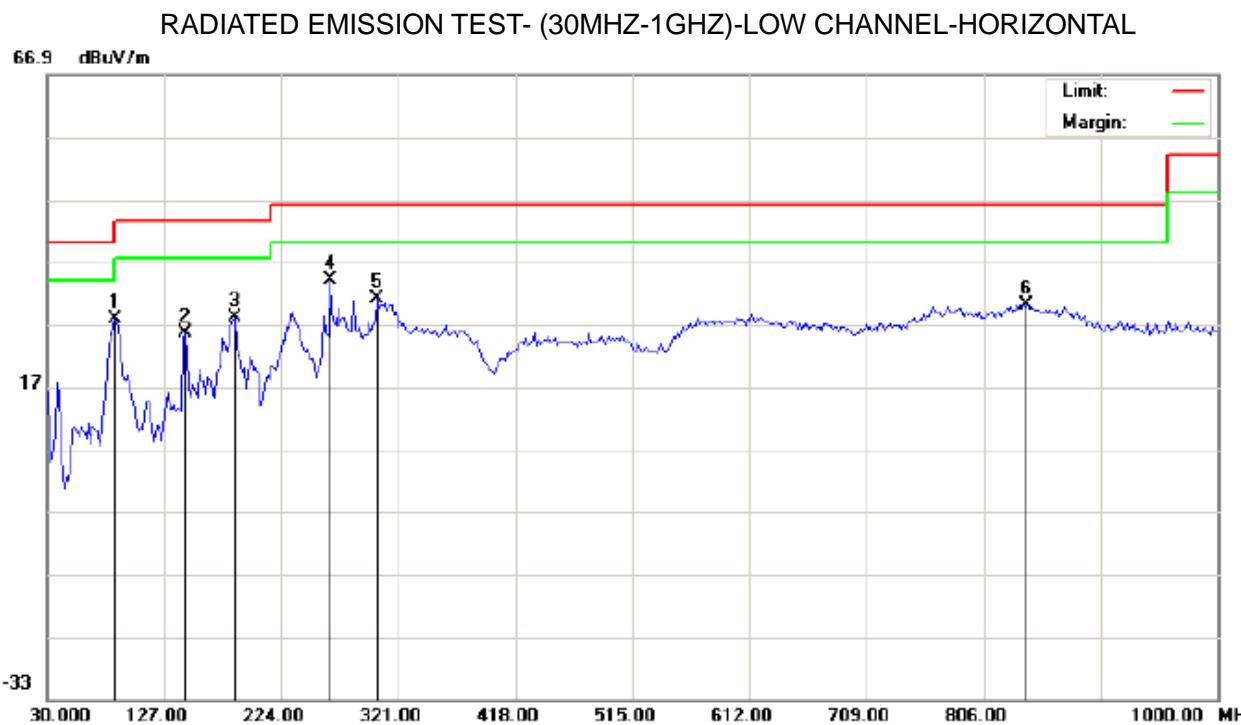
Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

7.4 TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Cell phone (Fusion2)
M/N: QS-G3UCT2BK
Mode: Low Channel TX
Note:

Polarization: **Horizontal**

Temperature: 26

Power:

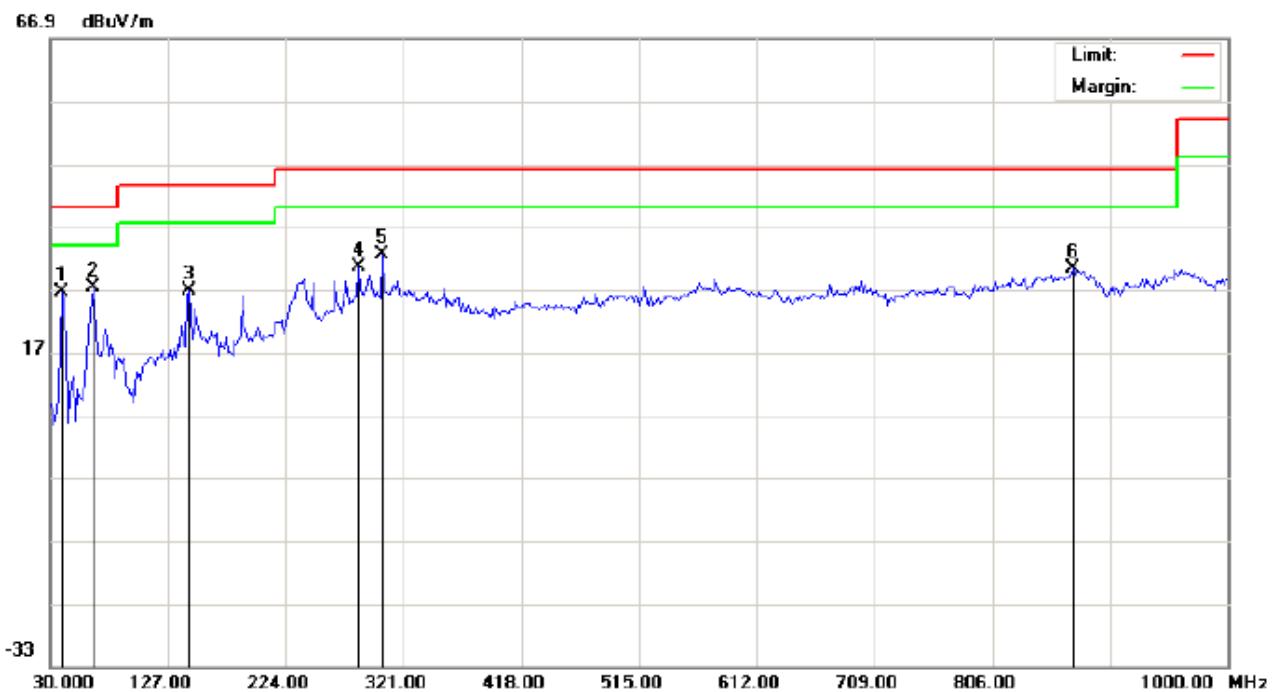
Humidity: 60 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		86.5832	12.95	14.95	27.90	40.00	-12.10	peak			
2		144.7833	12.74	12.90	25.64	43.50	-17.86	peak			
3		185.2000	18.16	9.96	28.12	43.50	-15.38	peak			
4	*	264.4167	19.35	14.71	34.06	46.00	-11.94	peak			
5		303.2167	13.79	17.21	31.00	46.00	-15.00	peak			
6		841.5667	-1.09	31.17	30.08	46.00	-15.92	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL

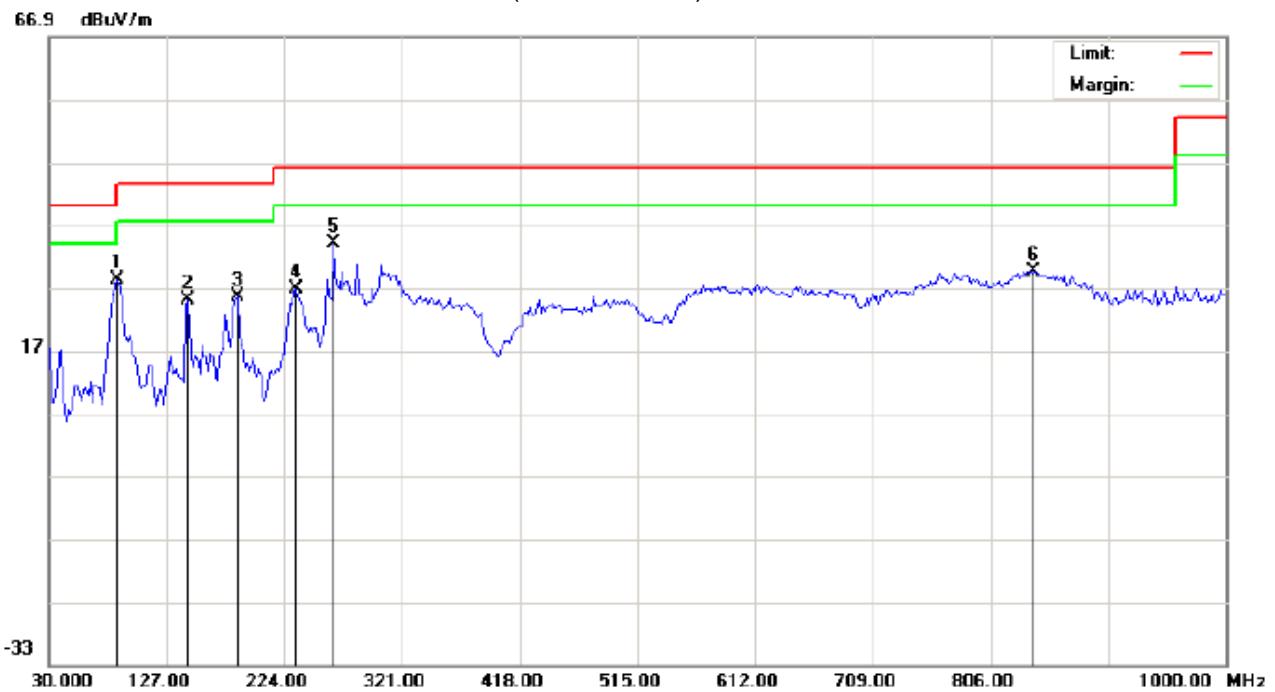


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: Low Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		39.7000	18.73	7.76	26.49	40.00	-13.51	peak			
2	*	65.5667	24.74	2.64	27.38	40.00	-12.62	peak			
3		144.7833	14.04	12.85	26.89	43.50	-16.61	peak			
4		283.8167	13.44	17.16	30.60	46.00	-15.40	peak			
5		303.2167	15.31	17.21	32.52	46.00	-13.48	peak			
6		872.2833	0.36	29.93	30.29	46.00	-15.71	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL

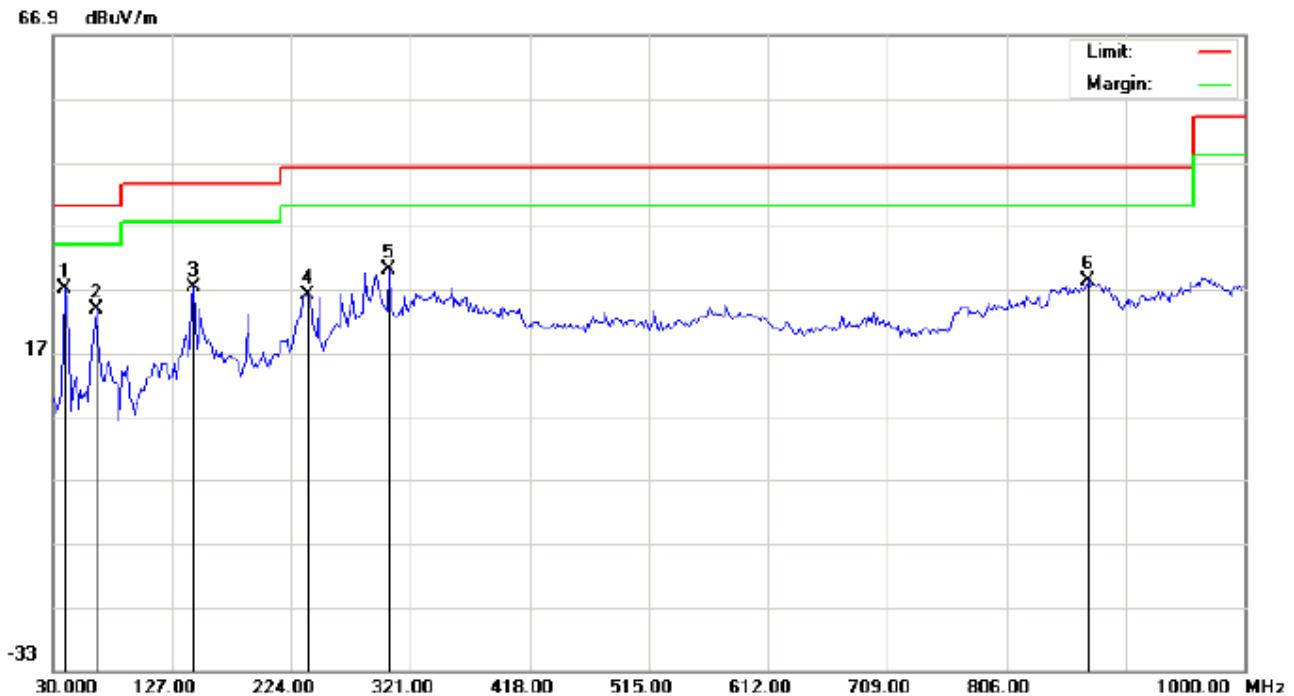


Site: site #1	Polarization: <i>Horizontal</i>	Temperature: 26
Limit: FCC Class B 3M Radiation	Power:	Humidity: 60 %
EUT: Cell phone (Fusion2)	Distance: 3m	
M/N: QS-G3UCT2BK		
Mode: Middle Channel TX		
Note:		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	86.5832	13.45	14.95	28.40	40.00	-11.60	peak			
2		144.7833	12.24	12.90	25.14	43.50	-18.36	peak			
3		185.2000	15.66	9.96	25.62	43.50	-17.88	peak			
4		233.7000	14.43	12.40	26.83	46.00	-19.17	peak			
5		264.4167	19.35	14.71	34.06	46.00	-11.94	peak			
6		841.5667	-1.59	31.17	29.58	46.00	-16.42	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: Middle Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	19.23	7.76	26.99	40.00	-13.01	peak			
2		65.5667	21.24	2.64	23.88	40.00	-16.12	peak			
3		144.7833	14.54	12.85	27.39	43.50	-16.11	peak			
4		236.9333	13.62	12.51	26.13	46.00	-19.87	peak			
5		303.2167	12.81	17.21	30.02	46.00	-15.98	peak			
6		872.2833	-1.64	29.93	28.29	46.00	-17.71	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL

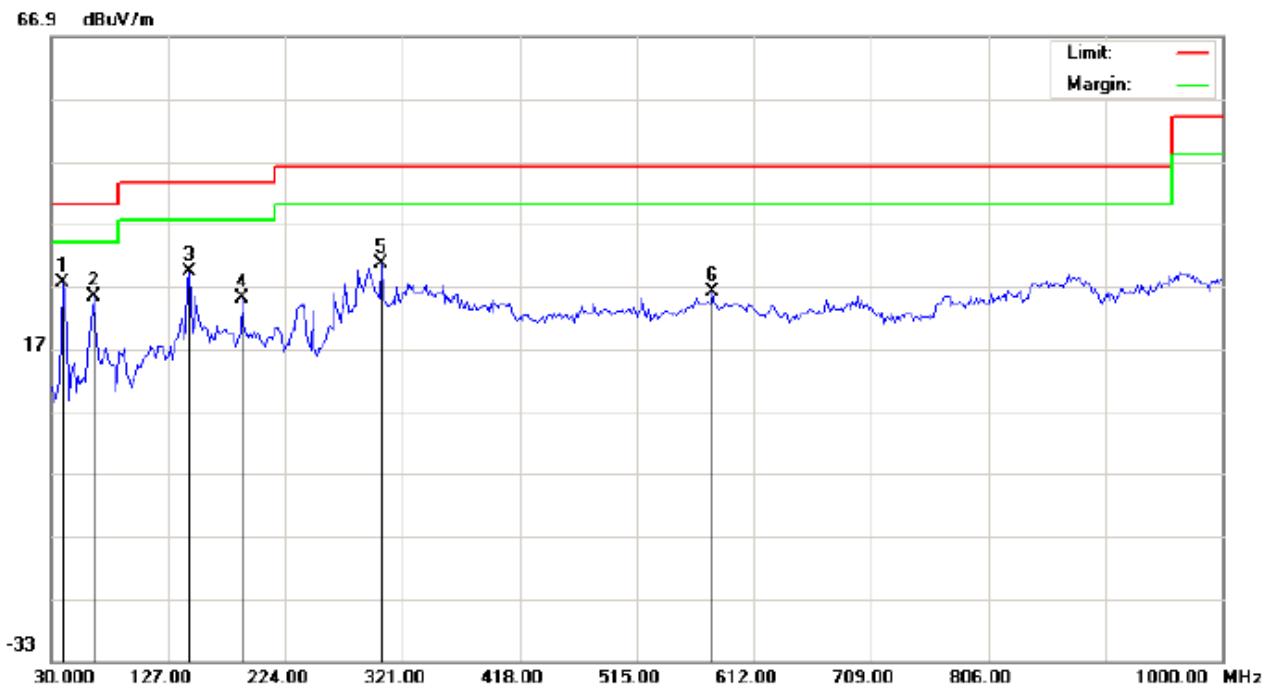


Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: High Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		86.5832	12.45	14.95	27.40	40.00	-12.60	peak			
2		144.7833	15.24	12.90	28.14	43.50	-15.36	peak			
3		185.2000	18.66	9.96	28.62	43.50	-14.88	peak			
4		233.7000	15.43	12.40	27.83	46.00	-18.17	peak			
5	*	264.4167	19.35	14.71	34.06	46.00	-11.94	peak			
6		303.2167	13.29	17.21	30.50	46.00	-15.50	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT: Cell phone (Fusion2)

Distance: 3m

M/N: QS-G3UCT2BK

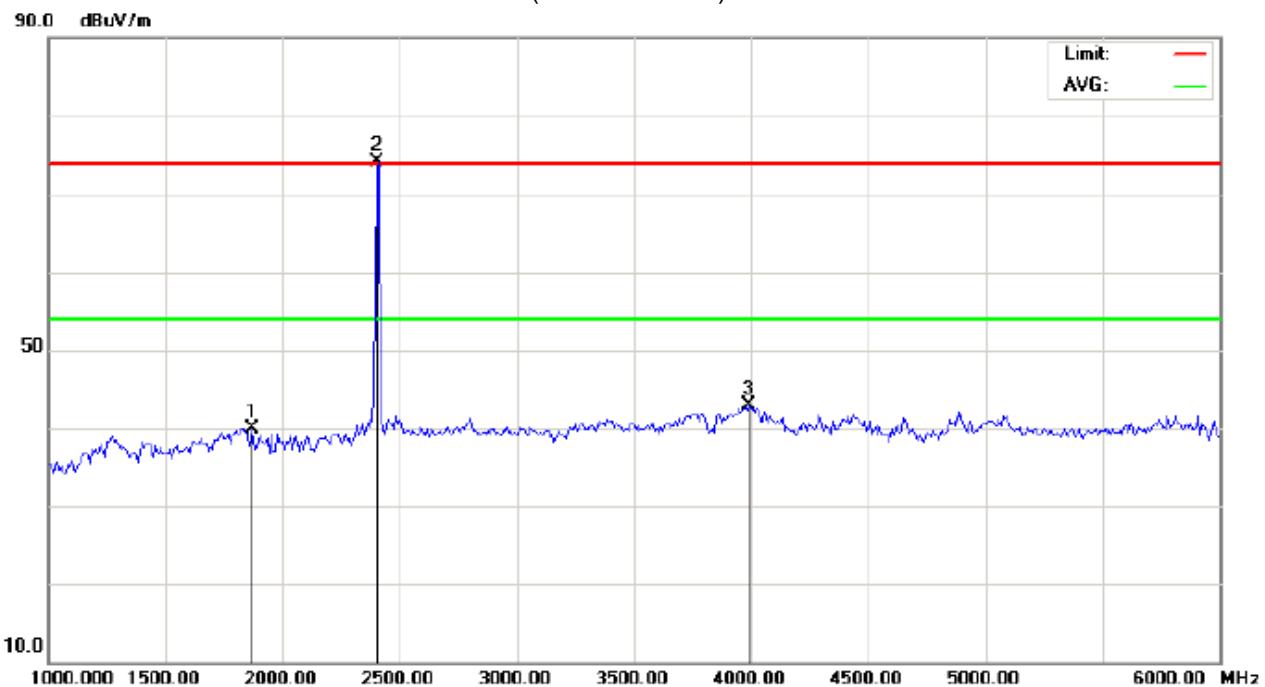
Mode: High Channel TX

Note:-

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	19.73	7.76	27.49	40.00	-12.51	peak			
2		65.5667	22.74	2.64	25.38	40.00	-14.62	peak			
3		144.7833	16.54	12.85	29.39	43.50	-14.11	peak			
4		188.4333	15.65	9.49	25.14	43.50	-18.36	peak			
5		303.2167	13.31	17.21	30.52	46.00	-15.48	peak			
6		578.0500	1.34	24.60	25.94	46.00	-20.06	peak			

RESULT: PASS

RADIATED EMISSION ABOVE 1GHZ
RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1 Polarization: *Horizontal* Temperature: 26
 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power:
 EUT: Cell phone (Fusion2) Distance: 3m
 M/N: QS-G3UCT2BK
 Mode: Low Channel TX
 Note:

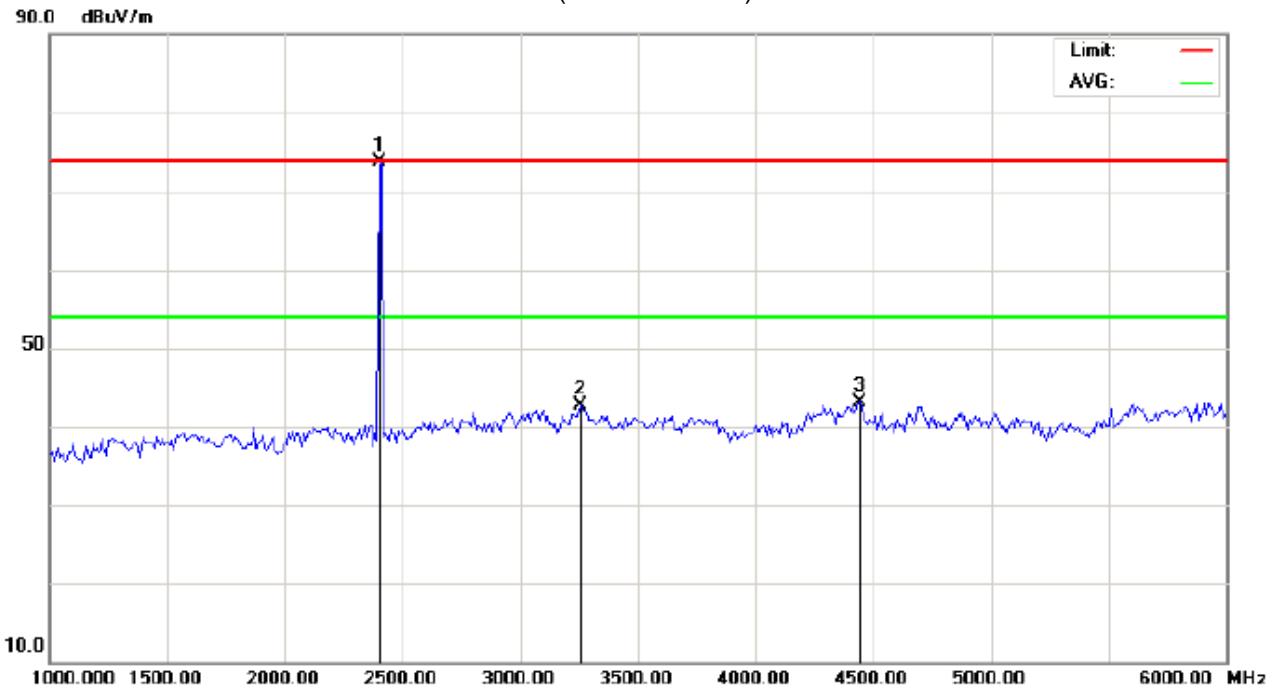
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
1		1866.667	39.85	0.00	39.85	74.00	-34.15	peak			
2	*	2402.047	74.13	0.00	74.13	74.00	0.13	peak			
3		3991.667	42.95	0.00	42.95	74.00	-31.05	peak			

RESULT: PASS

Note : Marker2 is fundamental frequency.

6~25GHz at least have 20dB margin. No recording in the test report.

RADIATED EMISSION TEST-(ABOVE 1GHZ)-LOW CHANNEL-VERTICAL



Site: site #1 Polarization: *Vertical* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: Low Channel TX
Note:

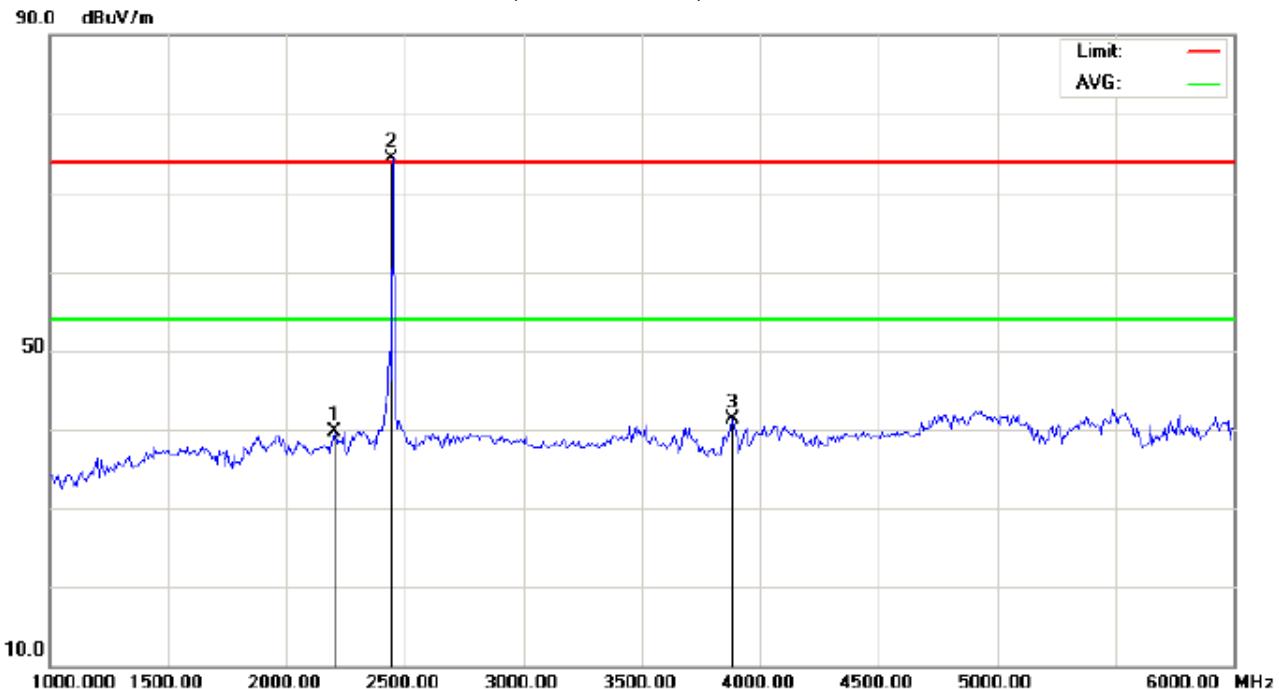
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.071	73.63	0.00	73.63	74.00	-0.37	peak			
2		3258.333	42.79	0.00	42.79	74.00	-31.21	peak			
3		4441.667	43.20	0.00	43.20	74.00	-30.80	peak			

RESULT: PASS

Note : Marker 1 is fundamental frequency.

6~25GHz at least have 20dB margin. No recording in the test report.

RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: Middle Channel TX
Note:

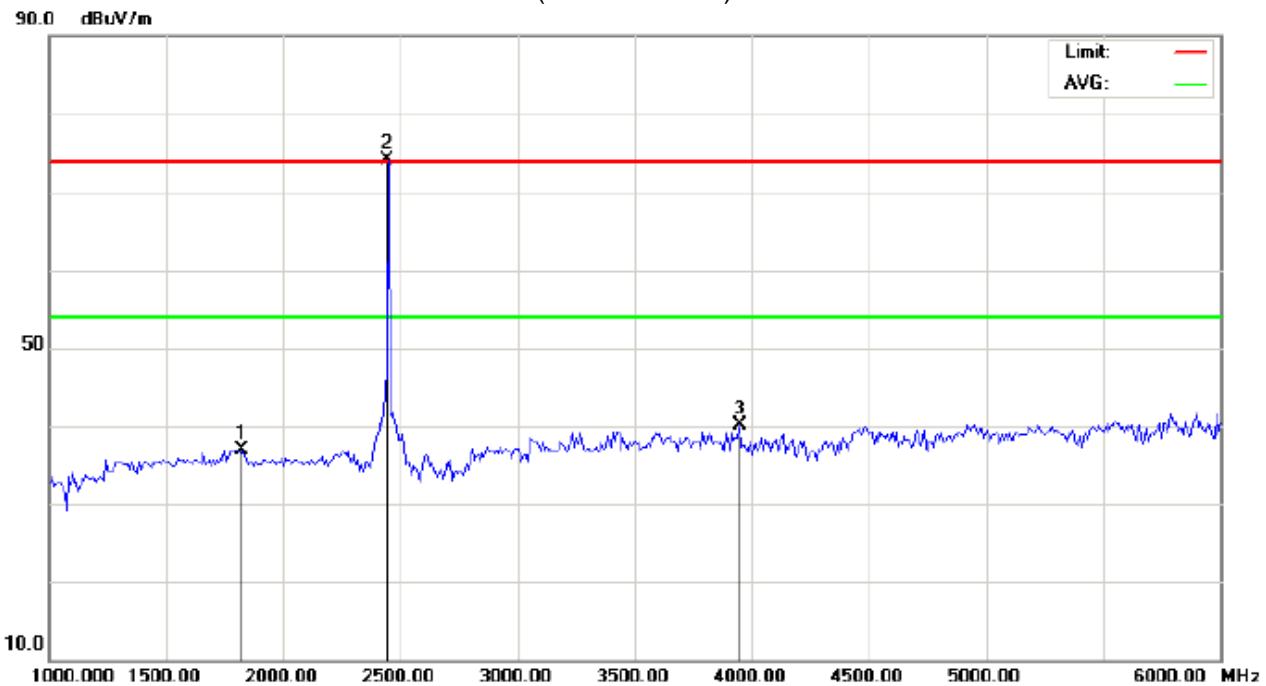
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2200.000	39.66	0.00	39.66	74.00	-34.34	peak			
2	*	2442.089	74.30	0.00	74.30	74.00	0.30	peak			
3		3883.333	41.36	0.00	41.36	74.00	-32.64	peak			

RESULT: PASS

Note: Marker 2 fundamental frequency.

6~25GHz at least have 20dB margin. No recording in the test report.

RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-VERTICAL



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: Middle Channel TX
Note:

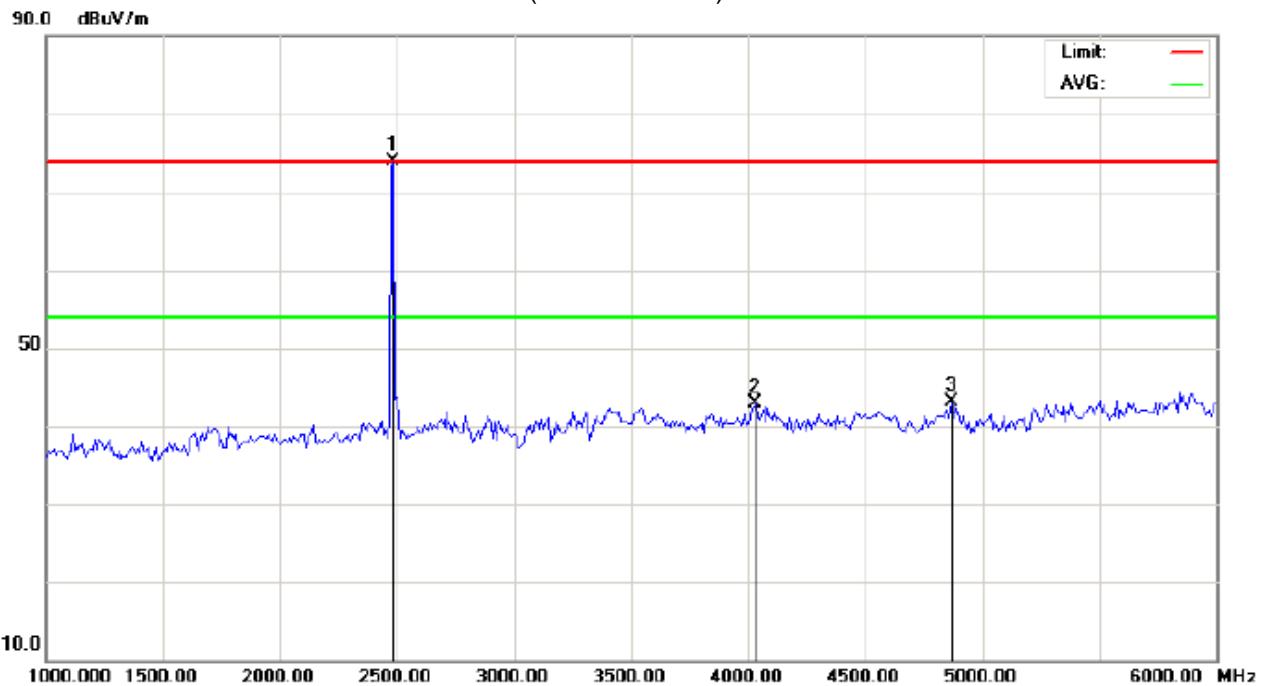
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1825.000	36.94	0.00	36.94	74.00	-37.06	peak			
2	*	2442.083	74.08	0.00	74.08	74.00	0.08	peak			
3		3950.000	40.01	0.00	40.01	74.00	-33.99	peak			

RESULT: PASS

Note: Marker 2 is the fundamental frequency.

6~25GHz at least have 20dB margin. No recording in the test report.

RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: High Channel TX
Note:

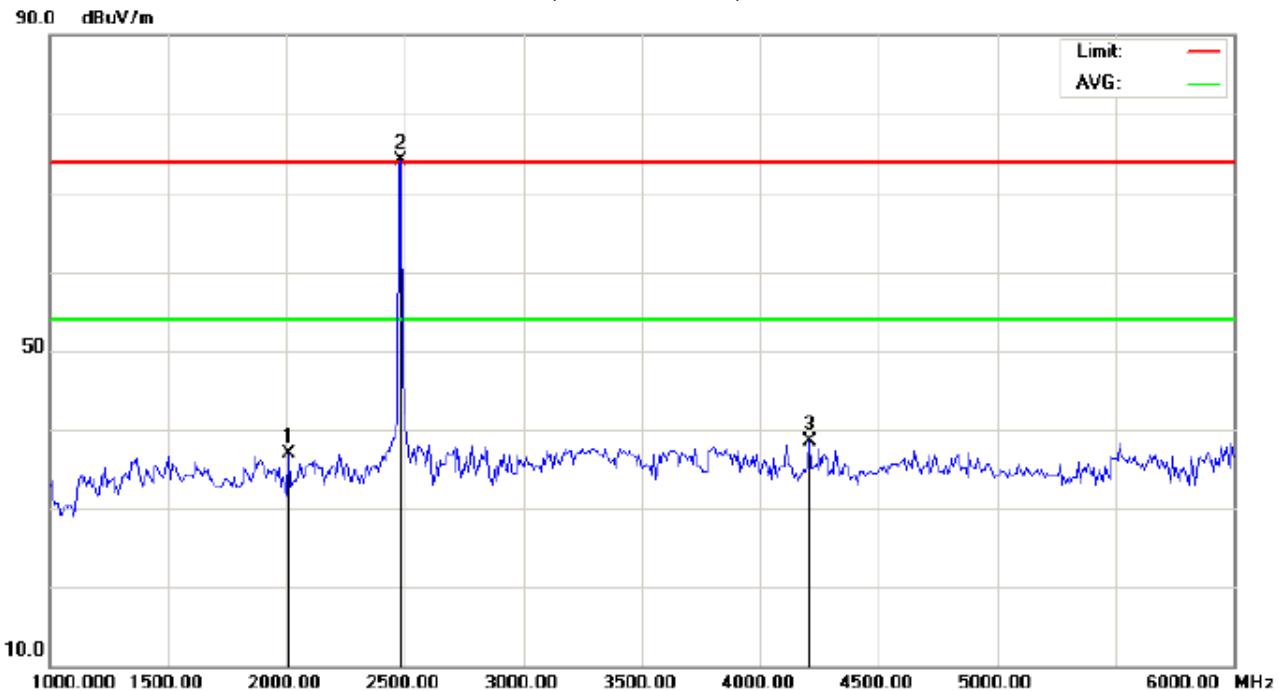
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.079	73.98	0.00	73.98	74.00	-0.02	peak			
2		4033.333	43.00	0.00	43.00	74.00	-31.00	peak			
3		4866.667	43.13	0.00	43.13	74.00	-30.87	peak			

RESULT: PASS

Note: Marker 1 is the fundamental frequency.

6~25GHz at least have 20dB margin. No recording in the test report.

RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-VERTICAL



Site: site #1 Polarization: *Vertical* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: High Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2008.333	36.91	0.00	36.91	74.00	-37.09	peak			
2	*	2480.112	74.05	0.00	74.05	74.00	0.05	peak			
3		4208.333	38.41	0.00	38.41	74.00	-35.59	peak			

RESULT: PASS

Note: Marker 2 is the fundamental frequency.

6~25GHz at least have 20dB margin. No recording in the test report.

8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

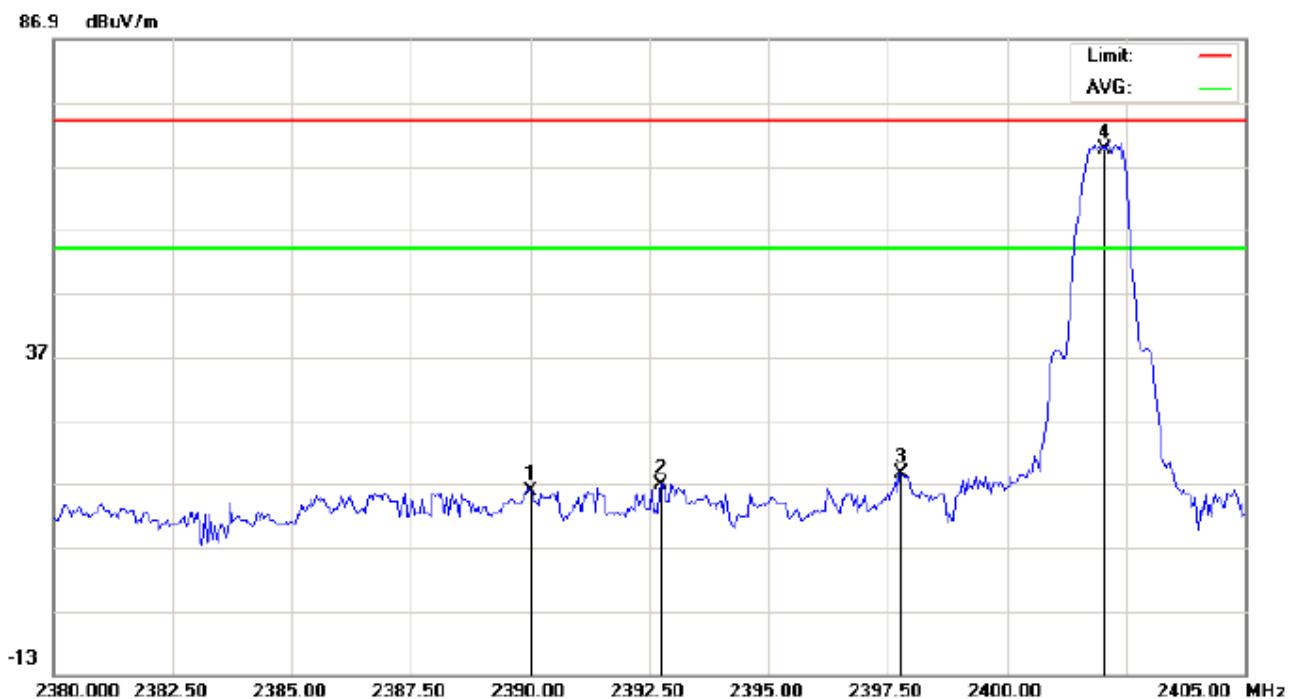
1. Set the EUT Work on the top, the bottom operation frequency individually.
2. Set SPA Start or Stop Frequency = Operation Frequency, RBW \geq 1%span, VBW \geq RBW
3. The band edges was measured and recorded.

8.2. TEST SET-UP

Radiated same as 6.2

8.3. TEST RESULT

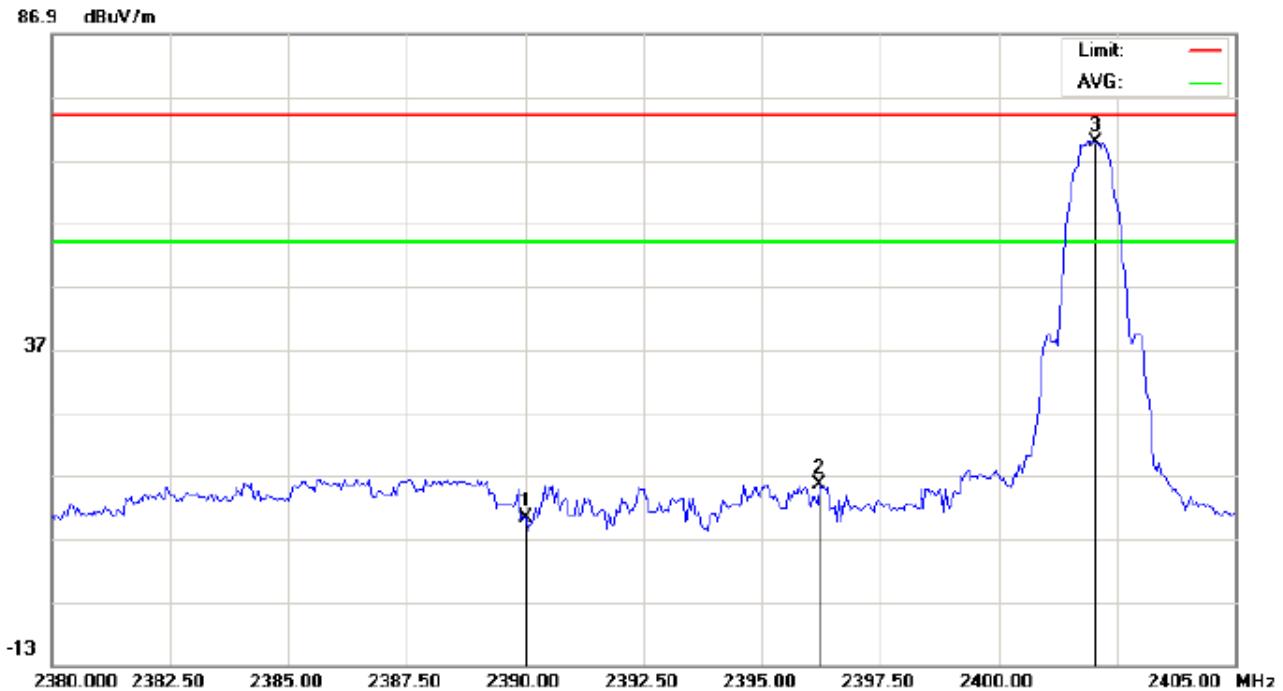
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Horizontal



Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: Low channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2390.000	25.37	-9.69	15.68	74.00	-58.32	peak			
2		2392.750	26.46	-9.69	16.77	74.00	-57.23	peak			
3		2397.792	28.31	-9.68	18.63	74.00	-55.37	peak			
4	*	2402.056	79.31	-9.68	69.63	74.00	-4.37	peak			

TEST PLOT OF BAND EDGE FOR LOW CHANNEL - Vertical

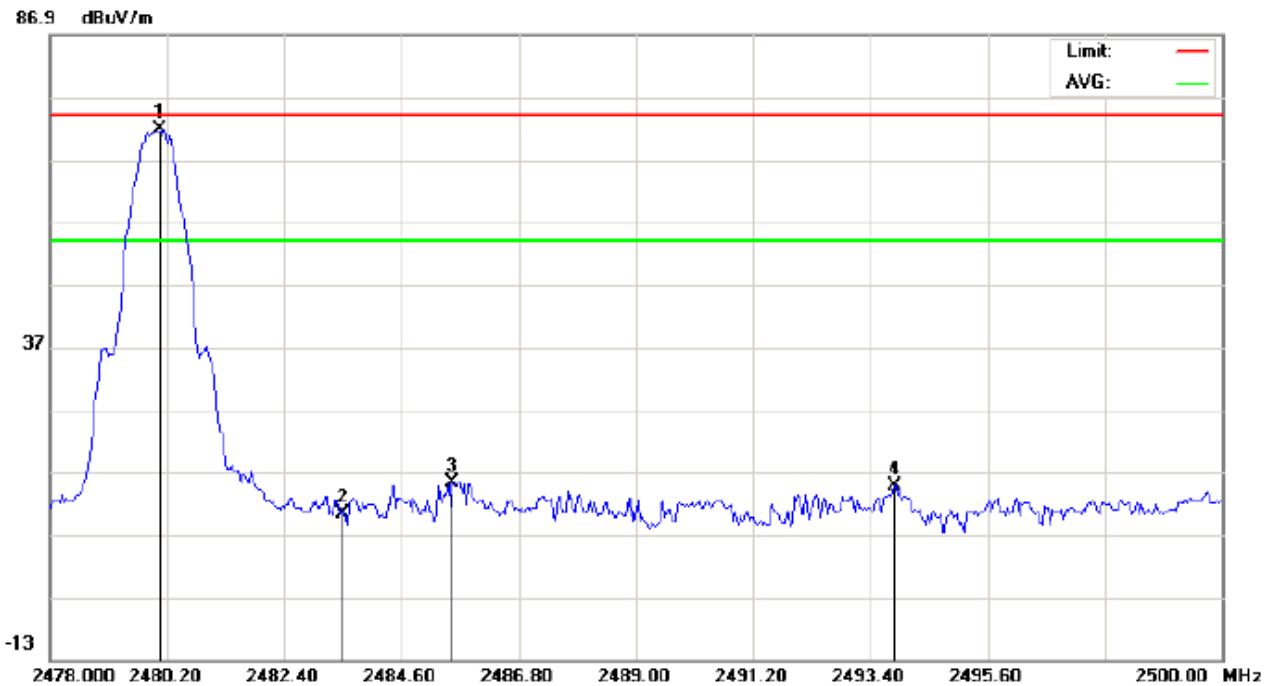


Site: site #1 Polarization: *Vertical* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: Low channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2390.000	20.01	-9.69	10.32	74.00	-63.68	peak			
2		2396.208	25.28	-9.68	15.60	74.00	-58.40	peak			
3	*	2402.063	79.46	-9.68	69.78	74.00	-4.22	peak			

RESULT: PASS

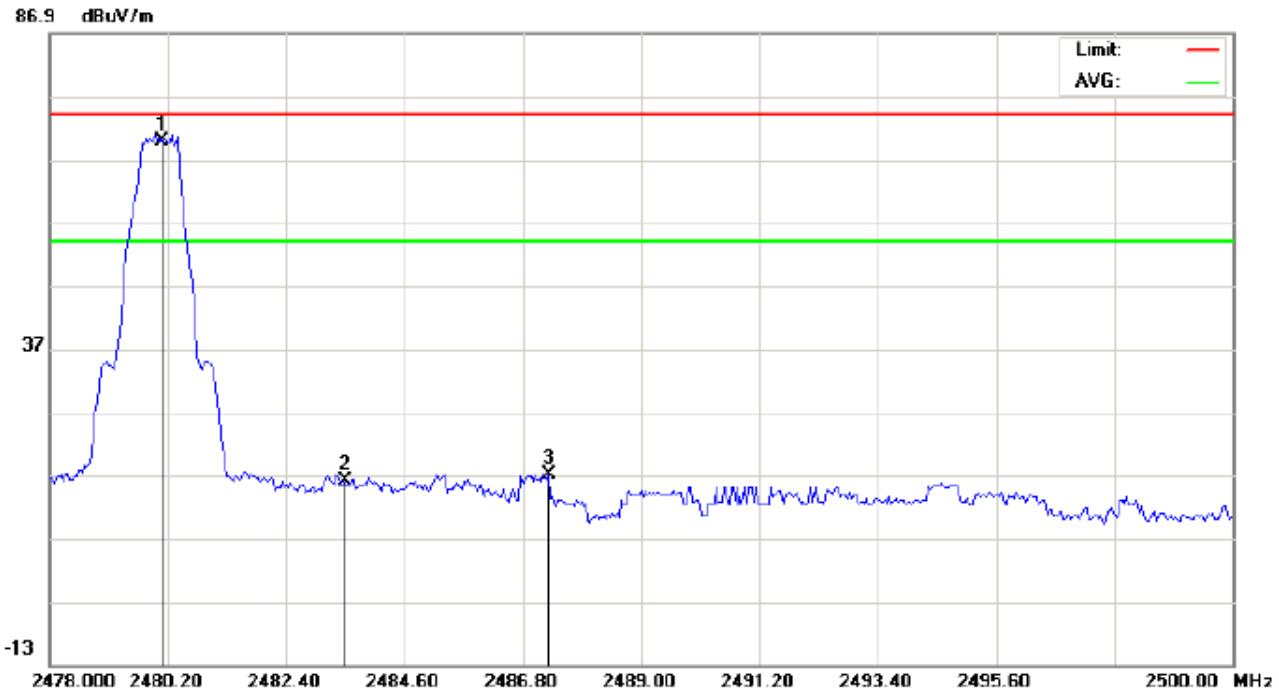
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL –Horizontal



Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: High channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.071	81.45	-9.59	71.86	74.00	-2.14	peak			
2		2483.500	19.97	-9.59	10.38	74.00	-63.62	peak			
3		2485.553	24.91	-9.59	15.32	74.00	-58.68	peak			
4		2493.840	24.36	-9.58	14.78	74.00	-59.22	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Vertical



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Cell phone (Fusion2) Distance: 3m
M/N: QS-G3UCT2BK
Mode: High channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.106	79.37	-9.59	69.78	74.00	-4.22	peak			
2		2483.500	25.68	-9.59	16.09	74.00	-57.91	peak			
3		2487.277	26.61	-9.58	17.03	74.00	-56.97	peak			

RESULT: PASS

9. 6DB BANDWIDTH

9.1. TEST EQUIPMENT LIST AND DETAILS

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/18/2012	07/17/2013
RECEIVER ANTENNA	ETS	2175	57337	07/18/2012	07/17/2013

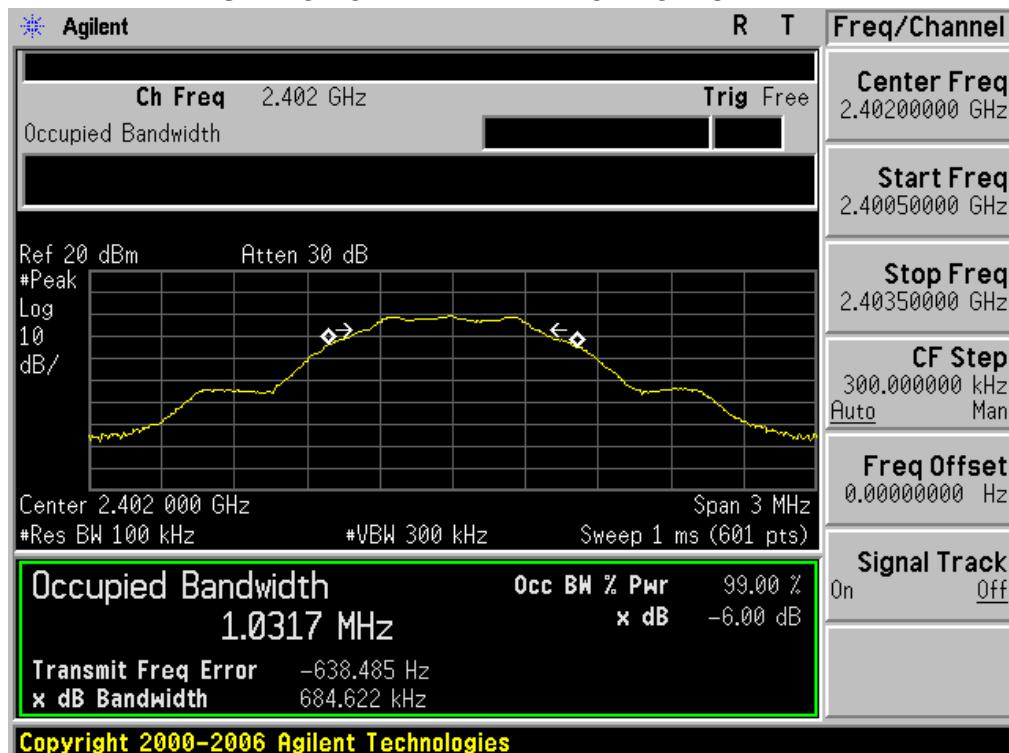
9.2. TEST PROCEDURE

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \geq RBW.
4. Set SPA Trace 1 Max hold, then View.

9.3. SUMMARY OF TEST RESULTS/PLOTS

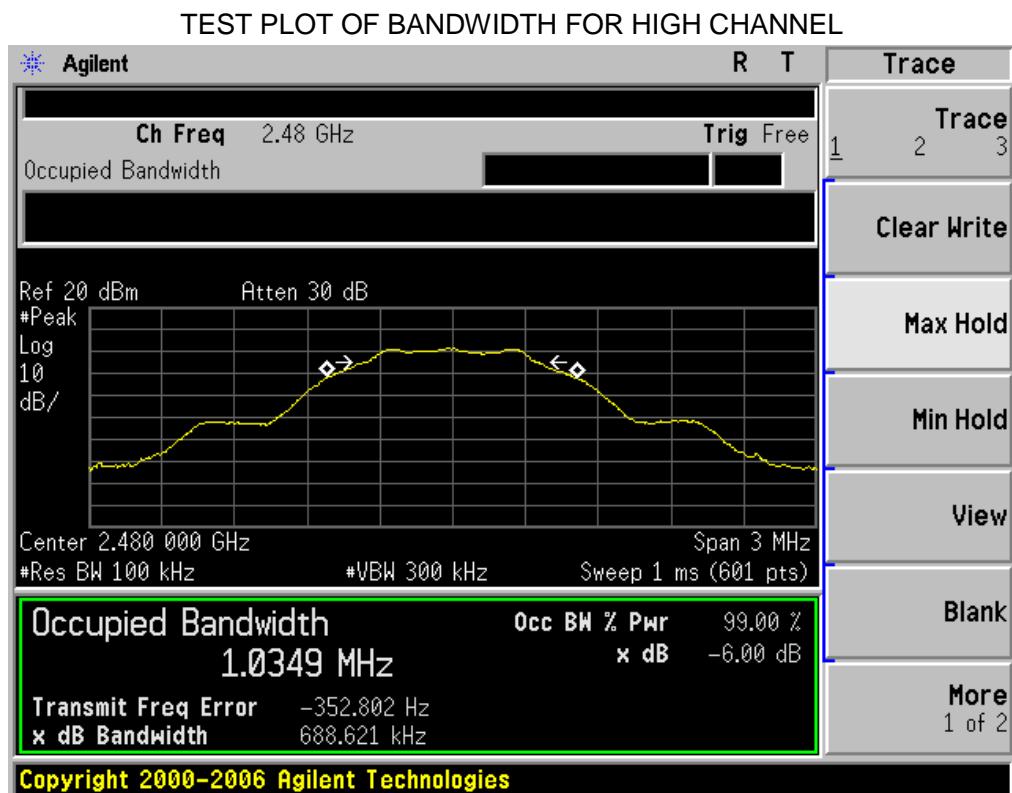
Channel	6dB Bandwidth (KHz)	Minimum Limit (KHz)	Pass/Fail
Low	684.622	500KHz	Pass
Middle	683.011		Pass
High	688.621		Pass

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





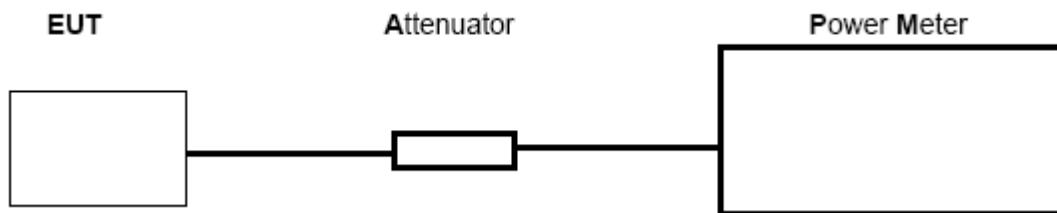
10. CONDUCTED OUTPUT POWER

10.1. MEASUREMENT PROCEDURE

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to power meter through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Set the RBW greater than 6DB bandwidth of emission.
5. Record the maximum power from the power meter.
6. The maximum peak power shall be less 1 Watt (30dBm).

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



10.3. LIMITS AND MEASUREMENT RESULT

Channel	Peak Power (dBm)	Applicable Limits (dBm)	Pass/Fail
Low Channel	1.63	20	Pass
Middle Channel	1.42	20	Pass
High Channel	1.95	20	Pass

11. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

11.1 MEASUREMENT PROCEDURE

- (1). The EUT was placed on a turn table which is 0.8m above ground plane.
- (2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (3). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (4). Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

11.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2

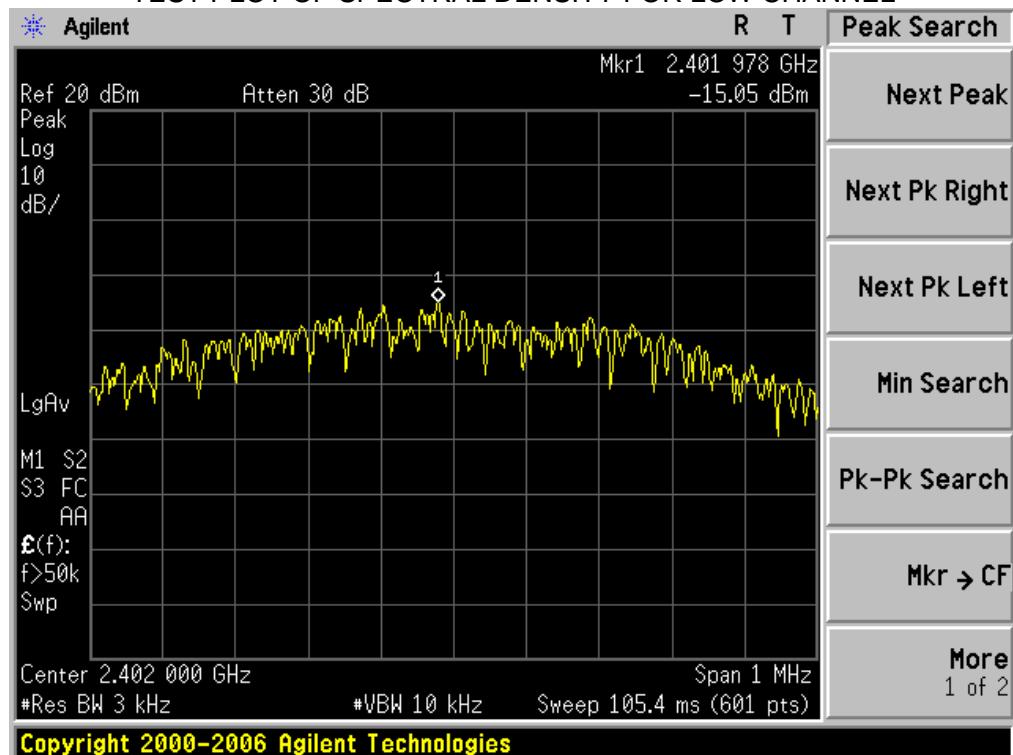
11.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

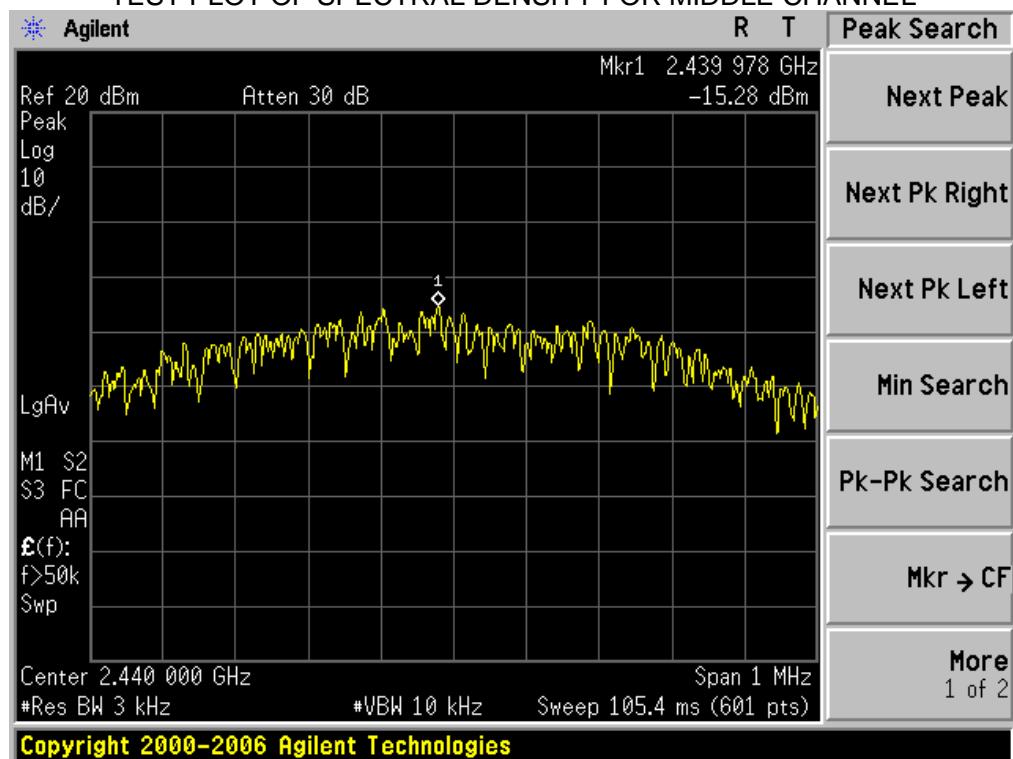
11.4 LIMITS AND MEASUREMENT RESULT

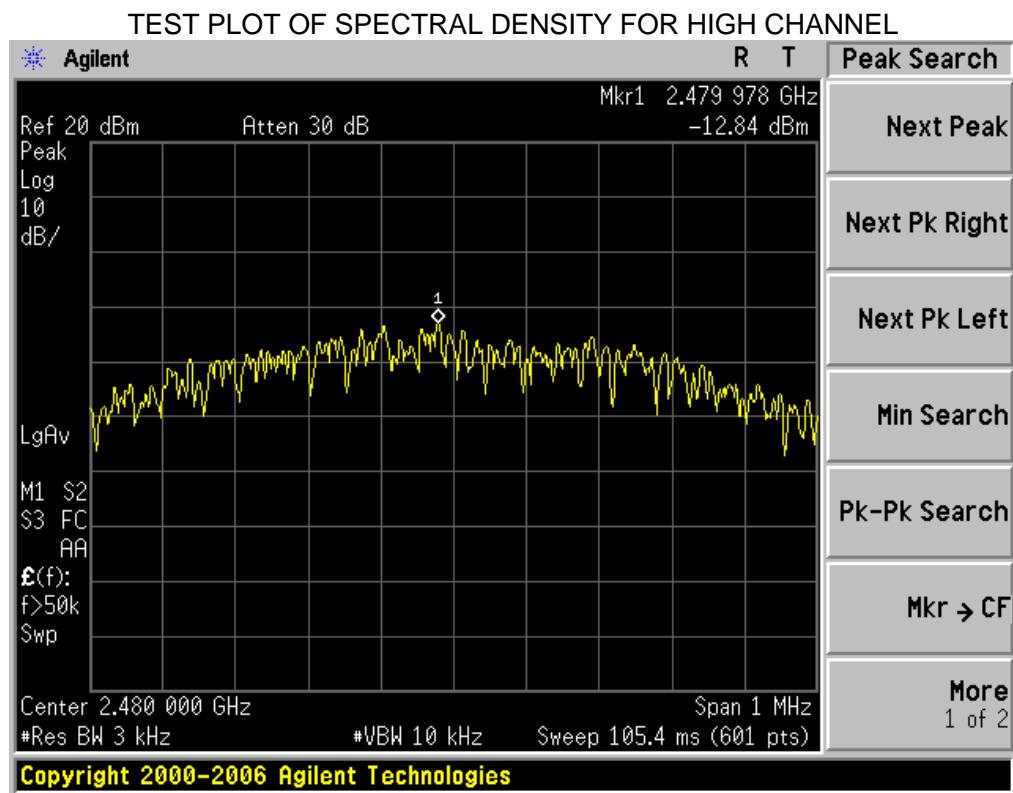
Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-15.05	8	Pass
Middle Channel	-15.28	8	Pass
High Channel	-12.84	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





12. FCC LINE CONDUCTED EMISSION TEST

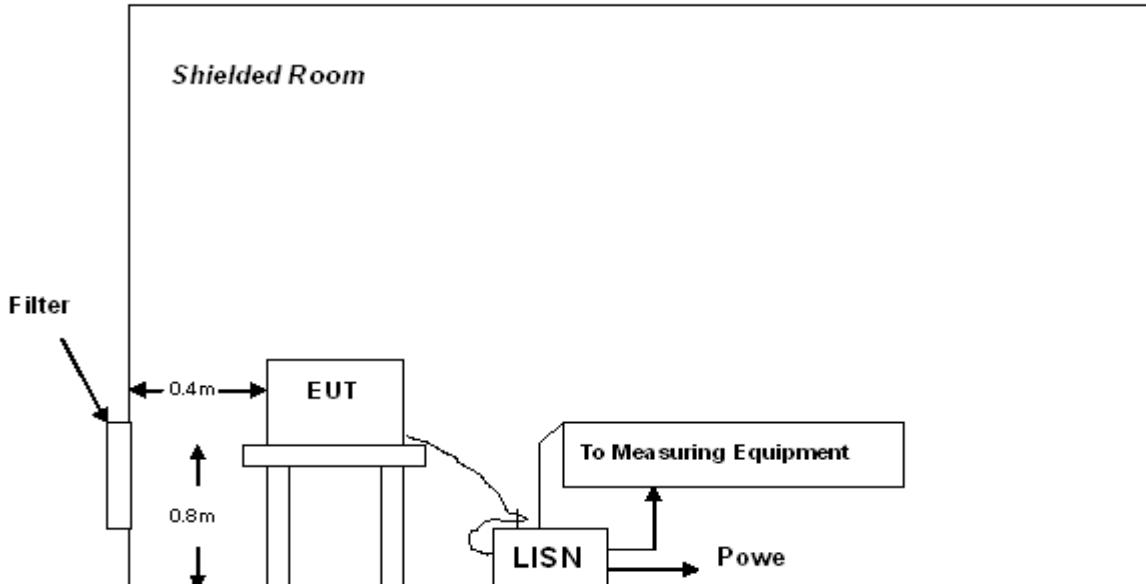
12.1 LIMITS

Frequency	Maximum RF Line Voltage	
	Q.P. (dBuV)	Average (dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

****Note:** 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2 TEST SETUP



A: Powered through filter

12.3 PRELIMINARY PROCEDURE

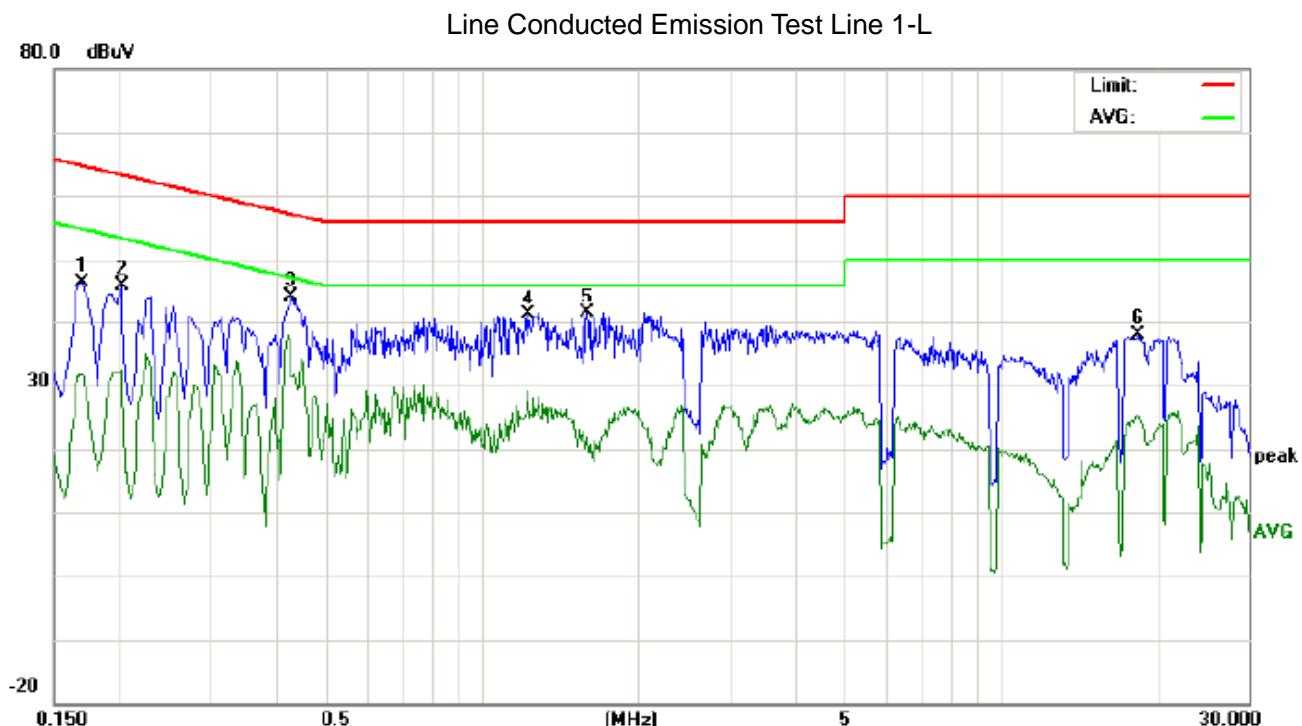
- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) All support equipments received AC120V/60Hz power from a LISN, if any.
- 5) The EUT received power by adapter which received power by a LISN.
- 6) The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 FINAL TEST PROCEDURE

- 10) EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 11) 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 12) 3) The test data of the worst case condition(s) was reported on the Summary Data page.

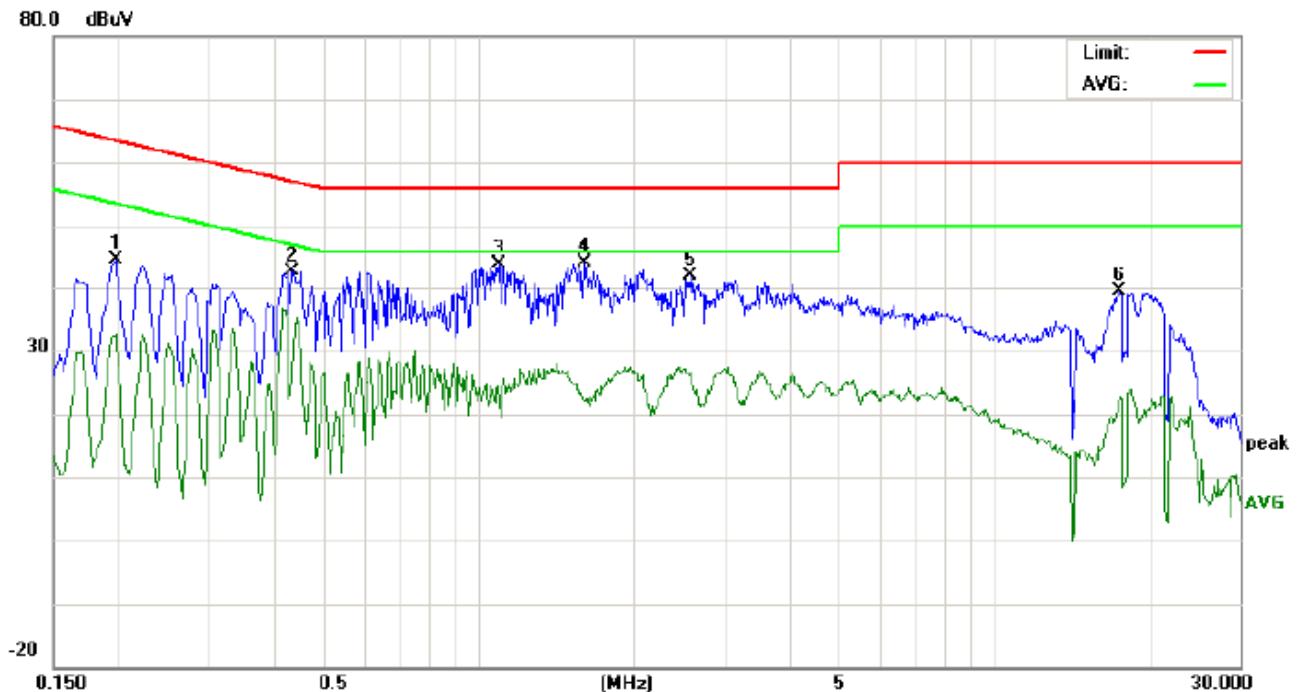
12.5 TEST RESULT OF POWER LINE



Site: Conduction Phase: *L1* Temperature: 26
 Limit: FCC Class B Conduction(QP) Power: Humidity: 60 %
 EUT: Cell phone (Fusion2)
 M/N: QS-G3UCT2BK
 Mode: Normal Operating(BT)
 Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1700	36.12		21.57	10.18	46.30		31.75	64.96	54.96	-18.66	-23.21	P	
2	0.2020	35.54		22.07	10.22	45.76		32.29	63.52	53.52	-17.76	-21.23	P	
3	0.4299	33.85		21.06	10.35	44.20		31.41	57.25	47.25	-13.05	-15.84	P	
4	1.2298	30.84		16.73	10.37	41.21		27.10	56.00	46.00	-14.79	-18.90	P	
5	1.5940	31.07		11.59	10.35	41.42		21.94	56.00	46.00	-14.58	-24.06	P	
6	18.3294	27.87		15.05	10.12	37.99		25.17	60.00	50.00	-22.01	-24.83	P	

Line Conducted Emission Test Line 1-N



Site: Conduction Phase: **N** Temperature: 26
 Limit: FCC Class B Conduction(QP) Power: Humidity: 60 %
 EUT: Cell phone (Fusion2)
 M/N: QS-G3UCT2BK
 Mode: Normal Operating(BT)
 Note:

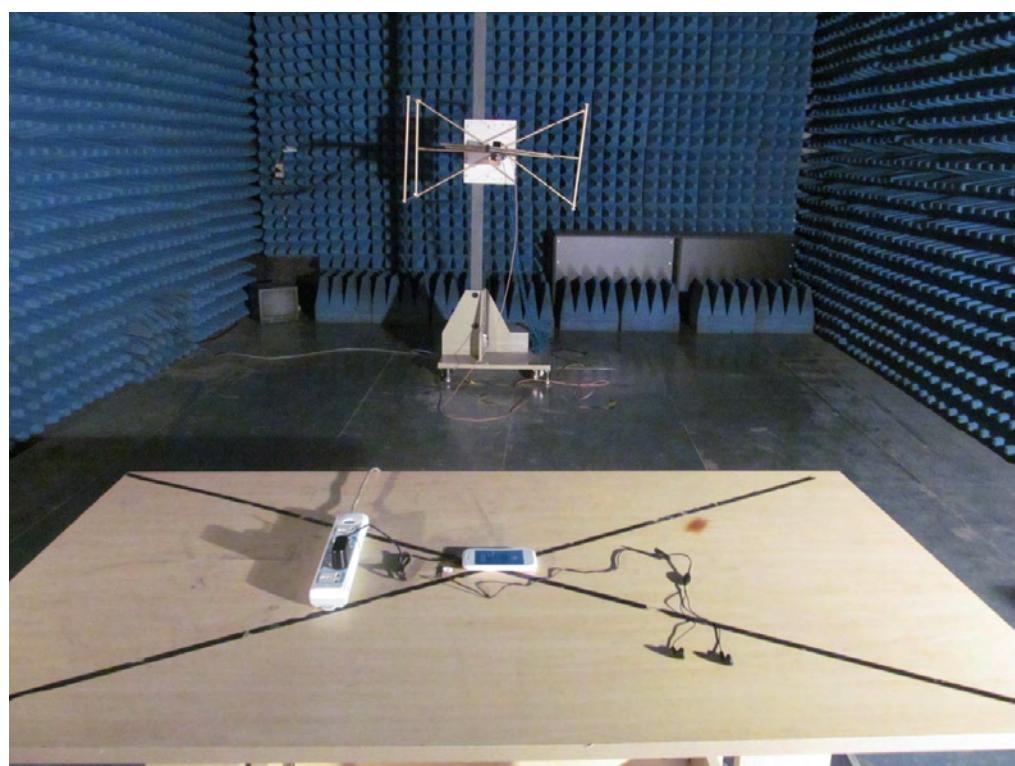
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1980	34.32		22.42	10.21	44.53		32.63	63.69	53.69	-19.16	-21.06	P	
2	0.4349	32.40		16.90	10.35	42.75		27.25	57.16	47.16	-14.41	-19.91	P	
3	1.0940	33.43		11.97	10.37	43.80		22.34	56.00	46.00	-12.20	-23.66	P	
4	1.6060	33.88		11.67	10.35	44.23		22.02	56.00	46.00	-11.77	-23.98	P	
5	2.5859	31.35		15.28	10.45	41.80		25.73	56.00	46.00	-14.20	-20.27	P	
6	17.5336	29.19		11.54	10.12	39.31		21.66	60.00	50.00	-20.69	-28.34	P	

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



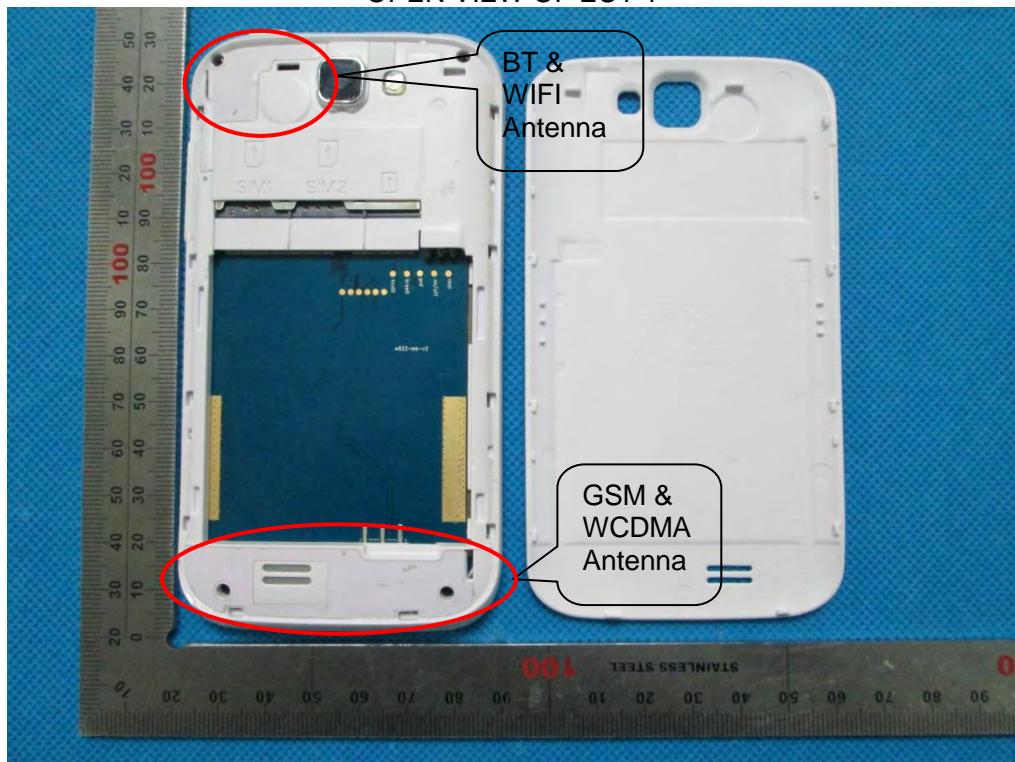
LEFT VIEW OF EUT



RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1



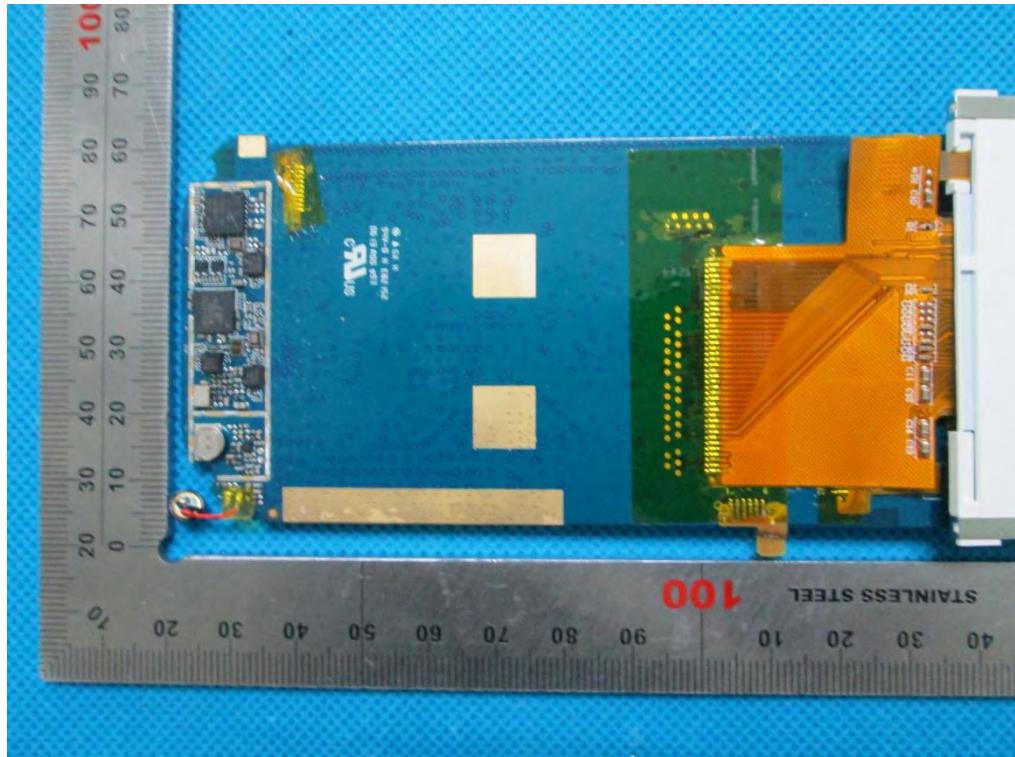
OPEN VIEW OF EUT-2



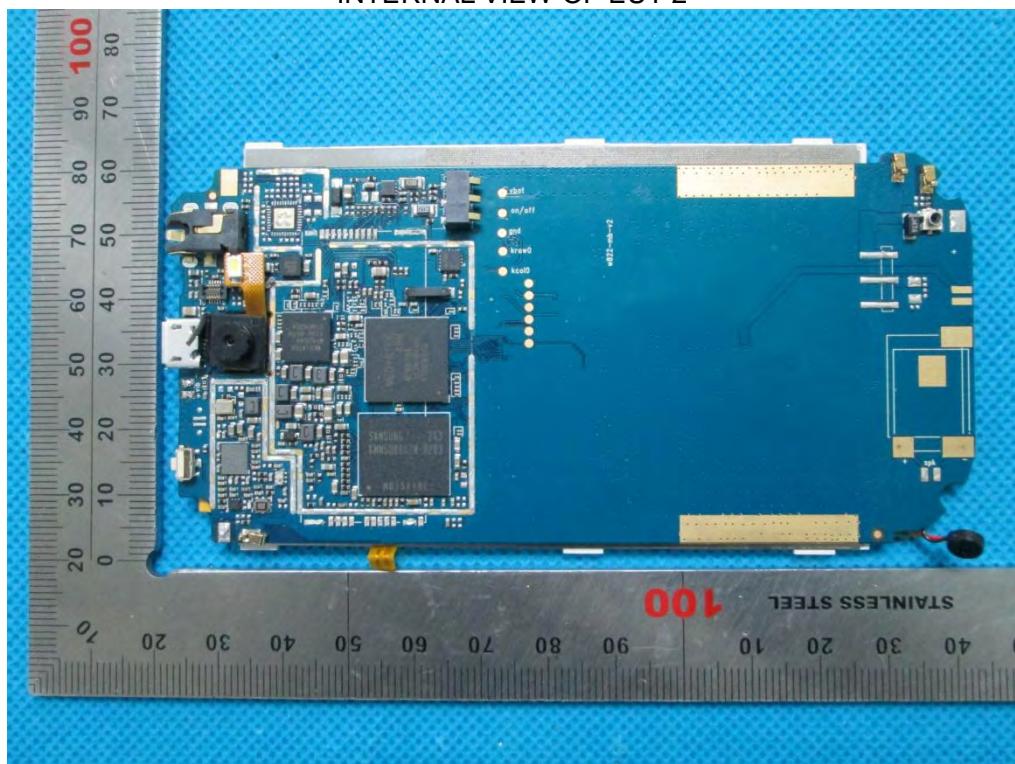
OPEN VIEW OF EUT-3



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----